ABSTRACT OF THE DISCLOSURE

An ATM switching system 1 is provided with an ATM switch
11, a reserved connection memory 12 for storing reserved

5   connection information, a call history memory 13 for maintaining
call histories of requests for connection from subscriber's
terminal units 2_{-1} to 2_{-n}, and a call-signal processing section
15. The call-signal processing section 15 generates a request
for connection with respect to a trunk ATM switching network 3

10 by the use of the call histories in the call history memory 13
in the case where no call was issued from the subscriber's
terminal units, and stores response results thereof in the
reserved connection memory 16. Thereafter, when there was a call
from the subscriber's terminal units 2_{-1} to 2_{-n} and contents of

15 the request for connection thereof are the same as the reserved
connection information, which has been stored in the reserved
connection memory 16, processing for connection is executed by
the use of the reserved connection information. As a result,
an ATM switching system by which response becomes possible in

20 even the case where a large amount of calls are issued at the
same time, besides reduction in cost can also be attained is
provided.